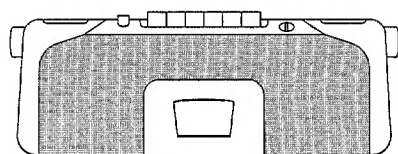


aiwa



CS-P88



STEREO RADIO
CASSETTE RECEIVER

• BASIC TAPE MECHANISM : TN-21ZV-1805

• TYPE: HE, HR, EZ

REVISION PUBLISHING

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CS-P88 (HE, HR, EZ), (S/M Code No. 09-993-410-0T1).

S/M Code No. 09-996-410-0R1

MANUAL
SERVICE

SPECIFICATIONS

Tuner section

Frequency range

| | |
|--------------------------|--|
| FM : | 87.5 MHz - 108 MHz Antenna : Rod antenna |
| MW : | 530 kHz - 1,605 kHz Antenna : Ferrite bar antenna |
| LW<EZ> : | 150 - 285 kHz Antenna : Ferrite bar antenna |
| SW<HE,HR> : | 5.9 - 18.0MHz Antenna : Rod antenna |

Deck section

Track format

Frequency range

Recording system

Erasing system

Heads

4 tracks, 2 channels
Normal tape : 50 Hz-12,500 Hz
(EIAJ)
AC bias
Magnet erase
Recording/Playback head x 1/
erasure head x 1

General

Speaker

Output

Power output

Power requirements

Power consumption

Dimensions (W x H x D)

Weight

77 mm cone type (2)
Headphones jack (stereo mini-jack)
1.2W + 1.2 W
(EIAJ 4 ohms, T.H.D. 10%)
0.9 W + 0.9 W
(DIN 1% Rated Power)
EZ : 2.2 W + 2.2 W
(DIN MUSIC POWER)
DC 6 V using four R14
(size C) batteries,
HE, HR : AC 110 -120V / 220-240V
switchable, 50/60 Hz
EZ : AC 230 V, 50 Hz
10 W
368 (W) x 134.5 (H) x 106 (D) mm
1.8 kg
(excluding batteries)

- Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|----------|----------------|-----------|---|
| 1 | 8Z-CS5-908-010 | | IB, EZ (9L) <EZ[S], EZ[L]> |
| 1 | 8Z-CS5-907-010 | | IB, H(ECA) <HE, HR> |
| △ 2 | 87-A80-081-010 | | AC CORD SET ASSY, EZ BLK |
| △ 3 | 87-A90-312-010 | | PLUG, CONVERSION WTN-1157R1 <HE, EZ[S]> |

ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION | REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|------------|----------------|----------------------------------|-------------|----------|----------------|-----------|-------------------------------|
| IC | | | | C93 | 87-010-190-080 | | C-CAP, S 0.01-50<EZ[S],EZ[L]> |
| | 87-A20-955-010 | IC, LA1828 | | C94 | 87-018-109-080 | | CAP, CER 22P-50<EZ[S],EZ[L]> |
| | 87-A20-946-040 | C-IC, MM1434XF | | C201 | 87-010-404-040 | | CAP, E 4.7-50 |
| | 88-CS7-612-010 | IC, TA7417AP | | C202 | 87-010-375-080 | | CAP, E 330-10 SME |
| | 8Z-CSA-617-010 | IC, LA4550 | | C203 | 87-010-404-040 | | CAP, E 4.7-50 |
| TRANSISTOR | | | | C204 | 87-010-178-080 | | CHIP CAP 1000P |
| | 89-319-233-080 | TR, 2SC1923 (0.1W) | | C205 | 87-010-553-080 | | CAP, E 47-16 |
| | 87-026-219-080 | TR, DTA144ES | | C207 | 87-010-190-080 | | CAP, CHIP 0.01-50 |
| | 87-026-215-080 | TR, DTC114YS | | C208 | 87-010-190-080 | | CAP, CHIP 0.01-50 |
| | 89-109-521-080 | TR, 2SA952 (0.6W) | | C209 | 87-010-190-080 | | CAP, CHIP 0.01-50 |
| | 89-327-125-080 | C-TR, 2SC2712 GR | | C210 | 87-010-190-080 | | CAP, CHIP 0.01-50 |
| | 87-026-228-080 | C-TR, DTA124EK | | C211 | 87-010-404-040 | | CAP, E 4.7-50 |
| | 89-318-154-080 | TR, 2SC1815 (0.4W) | | C212 | 87-010-404-040 | | CAP, E 4.7-50 |
| | 87-026-447-080 | TR, 2SC1740S R | | C213 | 87-010-553-080 | | CAP, E 47-16 |
| | 87-026-216-080 | TR, DTA124ES | | C214 | 87-010-404-040 | | CAP, E 4.7-50 |
| | 87-A30-167-010 | TR, 2SB1566E | | C215 | 87-010-402-040 | | CAP, E 2.2-50 |
| | 87-026-245-080 | TR, DTC114ES | | C251 | 87-010-404-040 | | CAP, E 4.7-50 |
| | 89-112-965-080 | TR, 2SA1296 (0.75W) | | C253 | 87-010-404-040 | | CAP, E 4.7-50 |
| | 87-026-463-080 | TR, 2SA933S (0.3W) | | C262 | 87-010-404-040 | | CAP, E 4.7-50 |
| | 87-026-217-080 | TR, DTC124ES | | C301 | 87-010-180-080 | | C-CER 1500P |
| | S2-KTD-130-4A0 | TR, KTD1304 | | C302 | 87-010-178-080 | | CHIP CAP 1000P |
| DIODE | | | | C303 | 87-010-180-080 | | C-CER 1500P |
| | 87-020-465-080 | DIODE, 1SS133 (110MA) | | C304 | 87-010-379-080 | | CAP, E 22-16 |
| | 87-070-345-080 | DIODE, IN4148 | | C305 | 87-010-194-080 | | CAP, CHIP 0.047 |
| | 87-A40-437-080 | ZENER, MTZJ4.3B | | C306 | 87-010-404-080 | | CAP, E 4.7-50 |
| | 87-A40-465-010 | DIODE, FR202 | | C307 | 87-010-404-080 | | CAP, E 4.7-50 |
| MAIN C.B | | | | C308 | 87-010-379-080 | | CAP, E 22-16 |
| C1 | 87-010-314-080 | C-CAP, S 22P-50V | | C309 | 87-010-264-080 | | CAP, E 100-10 5L |
| C2 | 87-010-316-080 | C-CAP, S 33P-50 CH | | C310 | 87-A10-176-010 | | CAP, CER 1000P-50<HE,HR> |
| C3 | 87-010-314-080 | C-CAP, S 22P-50V | | C312 | 87-012-157-080 | | C-CAP, S 330P-50 CH<HE,HR> |
| C6 | 87-010-378-080 | CAP, ELECT 10-16V | | C314 | 87-010-221-080 | | CAP, ELECT 470-10V |
| C7 | 87-010-194-080 | CAP, CHIP 0.047 | | C317 | 87-010-248-080 | | CAP, ELECT 220-10V |
| C8 | 87-010-190-080 | C-CAP, S 0.01-50 | | C318 | 87-010-112-080 | | CAP, ELECT 100-16 |
| C9 | 87-010-311-080 | CAP 12P<EXCEPT HR> | | C319 | 87-012-368-080 | | CHIP CAPACITOR, 0.1-50 |
| C10 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C320 | 87-010-185-080 | | C-CAP, S 3900P-50 B |
| C12 | 87-010-314-080 | C-CAP, S 22P-50V | | C321 | 87-010-404-080 | | CAP, E 4.7-50 |
| C14 | 87-010-400-080 | CAP, ELECT 0.47-50V | | C322 | 87-010-375-080 | | CAP, E 330-10 |
| C15 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C324 | 87-010-264-080 | | CAP, E 100-10 5L |
| C16 | 87-010-178-080 | CHIP CAP 1000P | | C325 | 87-010-553-080 | | CAP, E 47-16 |
| C17 | 87-012-368-080 | CHIP CAPACITOR, 0.1-50 | | C326 | 87-010-184-080 | | C-CAP, S 3300P-50 |
| C18 | 87-010-198-080 | CAP, CHIP 0.022 | | C328 | 87-010-101-080 | | CAP, E 220-16 |
| C19 | 87-010-544-080 | CAP, ELECT 0.1-50V | | C329 | 87-010-322-080 | | C-CAP, S 100P-50 CH |
| C20 | 87-010-400-080 | CAP, ELECT 0.47-50V | | C330 | 87-010-264-080 | | CAP, E 100-10 5L |
| C21 | 87-010-403-080 | CAP, ELECT 3.3-50V | | C351 | 87-010-180-080 | | C-CER 1500P |
| C22 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C352 | 87-010-178-080 | | CHIP CAP 1000P |
| C24 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C353 | 87-010-180-080 | | C-CER 1500P |
| C25 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C354 | 87-010-379-080 | | CAP, E 22-16 |
| C26 | 87-010-545-080 | CAP, ELECT 0.22-50V | | C355 | 87-010-194-080 | | CAP, CHIP 0.047 |
| C27 | 87-010-545-080 | CAP, ELECT 0.22-50V | | C356 | 87-010-404-080 | | CAP, E 4.7-50 |
| C28 | 87-010-194-080 | CAP, CHIP 0.047 | | C357 | 87-010-404-080 | | CAP, E 4.7-50 |
| C29 | 87-010-194-080 | CAP, CHIP 0.047 | | C401 | 87-010-404-040 | | CAP, E 4.7-50 |
| C30 | 87-010-248-080 | CAP, ELECT 220-10V | | C402 | 87-010-404-040 | | CAP, E 4.7-50 |
| C31 | 87-010-379-080 | CAP, ELECT 22-16V | | C403 | 87-010-178-080 | | CHIP CAP 1000P |
| C32 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C404 | 87-010-112-080 | | CAP, E 100-16 |
| C33 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C405 | 87-010-112-080 | | CAP, E 100-16 |
| C34 | 87-010-190-080 | CAP, CHIP 0.01-50 | | C407 | 87-010-221-080 | | CAP, ELECT 470-10V |
| C35 | 87-010-314-080 | C-CAP, S 22P-50V<HE,HR> | | C408 | 87-010-379-080 | | CAP, E 22-16 |
| C37 | 87-012-155-080 | C-CAP 180P-50CH | | C409 | 87-010-379-080 | | CAP, E 22-16 |
| C38 | 87-010-318-080 | C-CAP, S 47P-50 CH | | C410 | 87-010-112-080 | | CAP, E 100-16 |
| C41 | 87-010-318-080 | C-CAP, S 47P-50 CH<EZ[S],EZ[L]> | | C411 | 87-010-235-080 | | CAP, E 470-16 |
| C44 | 87-012-145-080 | C-CAP 270P-50CH<HE,HR> | | C412 | 87-010-112-080 | | CAP, E 100-16 |
| C44 | 87-012-156-080 | C-CAP, S 220P-50 CH<EZ[S],EZ[L]> | | C451 | 87-010-404-040 | | CAP, E 4.7-50 |
| C45 | 87-010-181-080 | CHIP CAP 1800P-50<HE,HR> | | C452 | 87-010-404-040 | | CAP, E 4.7-50 |
| C92 | 87-010-178-080 | CHIP CAP 1000P | | C453 | 87-010-178-080 | | CHIP CAP 1000P |
| | | | | C454 | 87-010-112-080 | | CAP, E 100-16 |
| | | | | C455 | 87-010-112-080 | | CAP, E 100-16 |
| | | | | C457 | 87-010-221-080 | | CAP, ELECT 470-10V |
| | | | | C602 | 87-010-236-080 | | CAP, E 1000-10 SME |
| | | | | C603 | 87-010-221-080 | | CAP, ELECT 470-10V |
| | | | | C605 | 87-010-101-080 | | CAP, ELECT 220-16 |

| REF.NO. | PART NO. | KANRI NO. | DESCRIPTION | REF.NO. | PART NO. | KANRI NO. | DESCRIPTION |
|---------|----------------|-----------|-----------------------------------|---------------|----------------|-----------|---------------------------------|
| C606 | 87-015-997-090 | | CAP,E 2200-16 SME | L41 | 87-003-143-080 | | COIL 4.7 UH<HE,HR> |
| CF1 | 87-A90-128-010 | | FLTR,AM IF CFAL-455 | L301 | 87-007-342-010 | | COIL,OSC BIAS 85K |
| CF2 | S2-9SF-E10-7P0 | | FM,CER FLTR 10.7MHZ | LED601 | 87-A40-622-010 | | L-34 HDSL |
| CF3 | S2-9SF-E10-7P0 | | FM,CER FLTR 10.7MHZ | S1 | 8Z-CS5-606-010 | | SW,SL SK43D06 (4P3T) |
| CN301 | S1-2S6-003-700 | | CONN,6P | S201 | 8Z-CS5-609-010 | | SW,PUSH PS12E03 (1P2T) |
| CN303 | 8Z-CS5-621-010 | | CONN,2P 53014-0210 | S301 | 8Z-CS5-607-010 | | SW,SL SK42D01 (4P2T) |
| CN602 | 8Z-CS5-629-010 | | CONN,4P 53014 MOLEX(2),MOTOR | S302 | S8-035-310-000 | | SW,SL 2P3T |
| CN603 | 8Z-CS5-622-010 | | CONN,2P 5268-02A | TC4 | 87-011-220-080 | | TRIMMER CAP 20P VTC<HE,HR> |
| D3 | 87-A40-226-080 | | VARI-CAP,SVC251SPA | TC5 | 87-011-221-080 | | CAP, TRIMMER 30P<EZ[S],EZ[L]> |
| L2 | S7-A01-031-000 | | FM OSC COIL 5.5X2.5T<EZ[S],EZ[L]> | TC5 | 87-011-220-080 | | TRIMMER CAP 20P VTC<HE,HR> |
| L2 | 87-A50-347-010 | | COIL,FM BPF EX<HE,HR> | TC6 | 87-011-221-080 | | CAP, TRIMMER 30P<EZ[S],EZ[L]> |
| L3 | 87-A50-348-010 | | COIL,BAR ANT LW/MW<EZ[S],EZ[L]> | VC1 | 87-A91-318-010 | | TUN-CAP,20P-140P E<EZ[S],EZ[L]> |
| L3 | 87-A50-448-010 | | COIL,BAR ANT MW HE(COI)<HE,HR> | VC1 | 87-A91-317-010 | | TUN-CAP,20P-335P H(TWD)<HE,HR> |
| L4 | 87-A50-345-010 | | COIL,FM RF EX | VR401 | 8Z-CS5-617-010 | | VR,RTRY 50K*2 V RK14K12A |
| L5 | 87-A50-343-010 | | COIL,FM OSC EX<HE,HR> | | | | |
| L5 | S7-A01-301-000 | | FM OSC COIL 7X3.5<EZ[S],EZ[L]> | HEADPHONE C.B | | | |
| L7 | 87-A50-336-010 | | COIL,AM IFT (TOKO) | CN402 | 8Z-CSA-607-010 | | CONN,4P 53014-0410 |
| L8 | 87-A50-335-010 | | COIL,FM IFT (TOKO) | CN403 | 8Z-CSA-607-010 | | CONN,4P 53014-0410 |
| L9 | 87-A50-334-010 | | COIL,FM DET (TOKO) | J401 | 87-009-216-010 | | JACK, DIA 3.5 |
| L10 | 87-003-102-080 | | COIL, 10UH | | | | |
| L11 | 87-A50-341-010 | | COIL,SW ANT (TOKO)<HE,HR> | | | | |
| L16 | 87-A50-463-010 | | MW OSC COIL<HE,HR> | | | | |
| L16 | 87-A50-339-010 | | COIL,LW OSC (TOKO)<EZ[S],EZ[L]> | | | | |
| L17 | 87-A50-340-010 | | COIL,SW OSC (TOKO)<HE,HR> | | | | |
| L17 | 87-A50-337-010 | | MW OSC COIL<EZ[S],EZ[L]> | | | | |

チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding


8 8 - □ □ □ □ □ □ □

A
抵抗部品コード
Resistor Code

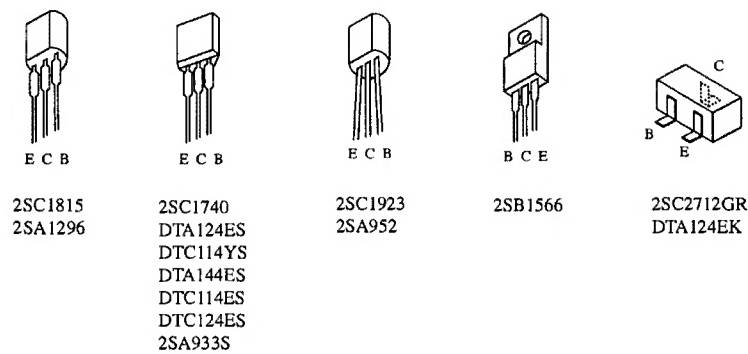
桁表示
Figure
抵抗値
Value of resistor

チップ抵抗
Chip resistor

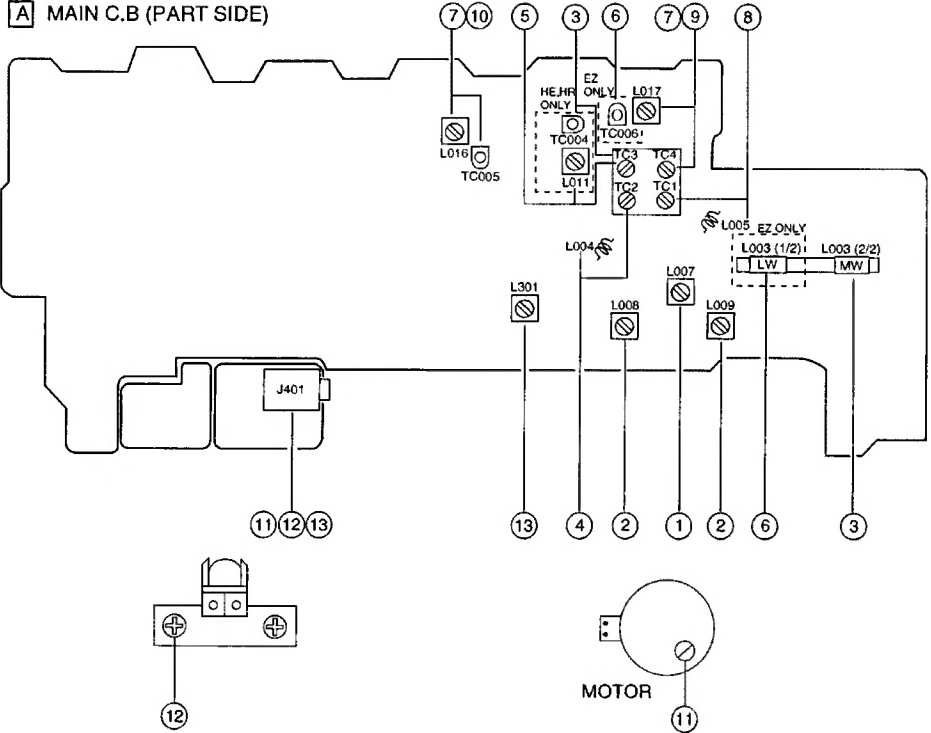
Chip Resistor

| 容量 Wattage | 種類 Type | 許容誤差 Tolerance | 記号 Symbol | 寸法/Dimensions (mm) | | | | 抵抗コード : A Resistor Code : A |
|---------------|------------|-------------------|--------------|---|-----|------|------|--------------------------------|
| | | | | 外形/Form | L | W | t | |
| 1/16W | 1005 | ± 5% | CJ |  | 1.0 | 0.5 | 0.35 | 104 |
| 1/16W | 1608 | ± 5% | CJ | | 1.6 | 0.8 | 0.45 | 108 |
| 1/10W | 2125 | ± 5% | CJ | | 2 | 1.25 | 0.45 | 118 |
| 1/8W | 3216 | ± 5% | CJ | | 3.2 | 1.6 | 0.55 | 128 |

TRANSISTOR ILLUSTRATION



ELECTRICAL ADJUSTMENT



< RADIO SECTION >

| | | | |
|---|---------|--|---------------------------------|
| 1. AM IF Adjustment L007 | 455kHz | 7a. MW Frequency Range Adjustment <HE, HR> L016 | 515kHz |
| 2. FM IF Adjustment L008, L009 | 10.7MHz | TC005 | 1635kHz |
| 3a. MW Tracking Adjustment <HE, HR> L003 (2/2) | 600kHz | 7b. MW Frequency Range Adjustment <EZ> L017 | 515kHz |
| TC004 | 1400kHz | TC4 | 1635kHz |
| 3b. MW Tracking Adjustment <EZ> L003 (2/2) | 600kHz | 8. FM Frequency Range Adjustment L005 | 87.35MHz <EZ> / 87MHz <HE, HR> |
| TC3 | 1400kHz | TC1 | 108.3MHz <EZ> / 109MHz <HE, HR> |
| 4. FM Tracking Adjustment L004 | 88MHz | 9. SW Frequency Range Adjustment <HE, HR> L017 | 5.8MHz |
| TC2 | 108MHz | TC4 | 18.5MHz |
| 5. SW Tracking Adjustment <HE, HR> L011 | 5.9MHz | 10. LW Frequency Range Adjustment <EZ> L016 | 145kHz |
| TC3 | 18MHz | TC005 | 295kHz |
| 6. LW Tracking Adjustment <EZ> L003 (1/2) | 150kHz | | |
| TC006 | 280kHz | | |

< TAPE RECORDER SECTION >

11. Tape speed Adjustment
Condition: • Test tape: TTA-100
• Test point: PHONES JACK (J401)
• Adjustment location: SFR of deck motor
Method: Play back the test tape and adjust so that the output frequency is 3000Hz.
12. Azimuth Adjustment
Condition: • Test tape: TTA-320
• Test point: PHONES JACK (J401)
• Adjustment location: Azimuth adjustment screw
Method: Play back the test tape and adjust so that the output is maximum.
13. AC Bias Adjustment
Condition: • Test tape: TTA-630
• Test point: PHONES JACK (J401)
• Adjustment location: L301
Method: Set up the recording mode. Adjust L301 so that the test point becomes 75kHz.

PRACTICAL SERVICE FIGURE

< RADIO SECTION >

| | |
|---------------------------------------|-------------------------|
| <FM Section> Sensitivity: | Less than 20dB |
| (IHF, THD 3%) | [at 87.5 / 98 / 108MHz] |
| S/N Ratio: | More than 55dB |
| | [at 98MHz] |
| Distortion (Input 54dB): | Less than 1.5% |
| | [at 98MHz] |
| Distortion (Input 120dB): | Less than 5.0% |
| | [at 98MHz] |
| FM stereo separation: (Input 1kHz) | More than 18dB |
| Intermediate frequency: | [at 98MHz] |
| | 10.7MHz ± 0.1MHz |

<AM(MW) Section>

| | |
|---------------------------|-----------------------------|
| Sensitivity (S/N 10dB): | Less than 45dB |
| | [at 600 / 1000 / 1400kHz] |
| S/N Ratio: | More than 35dB |
| | [at 1000kHz] |
| Distortion (Input 74dB): | Less than 1.5% [at 1000kHz] |
| Distortion (Input 120dB): | Less than 3.0% [at 1000kHz] |
| Intermediate frequency: | 455kHz ± 3.5kHz |

<LW Section><EZ only>

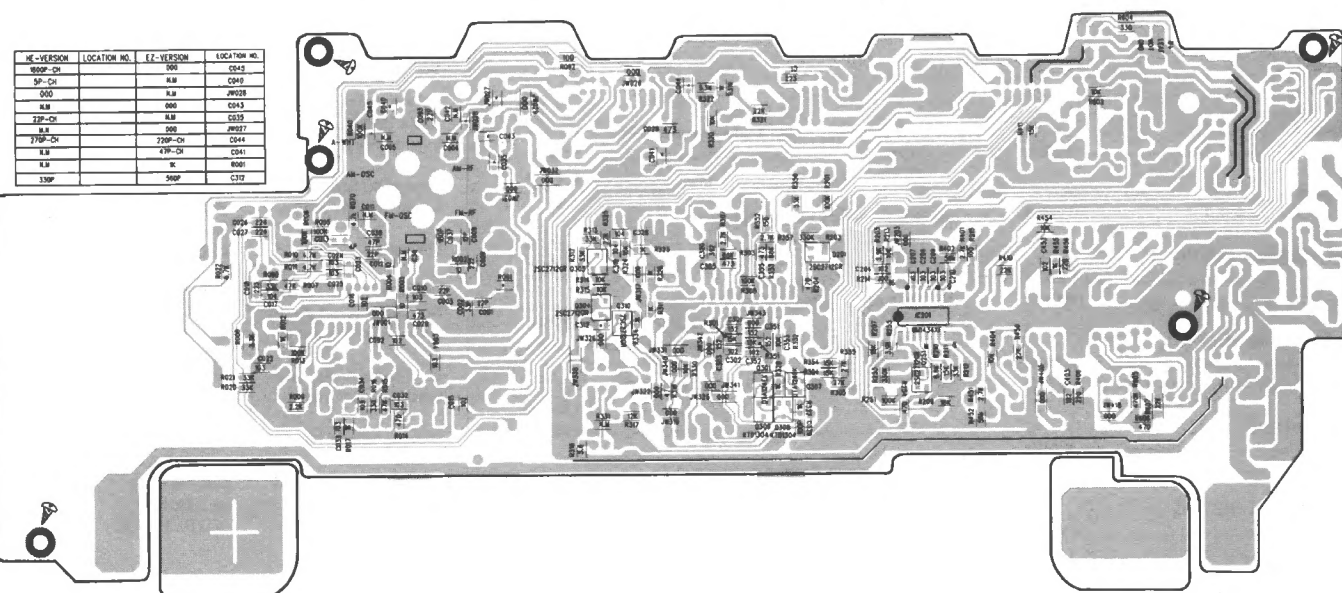
| | |
|---------------------------|--------------------------|
| Sensitivity (S/N 10dB): | Less than 55dB |
| | [at 150 / 200 / 285 kHz] |
| Distortion (Input 74dB): | Less than 3.0% |
| | [at 200kHz] |
| Distortion (Input 120dB): | Less than 3.5% |
| | [at 200kHz] |
| Intermediate frequency: | 455kHz ± 3.5kHz |

<SW Section><HE, HR only>

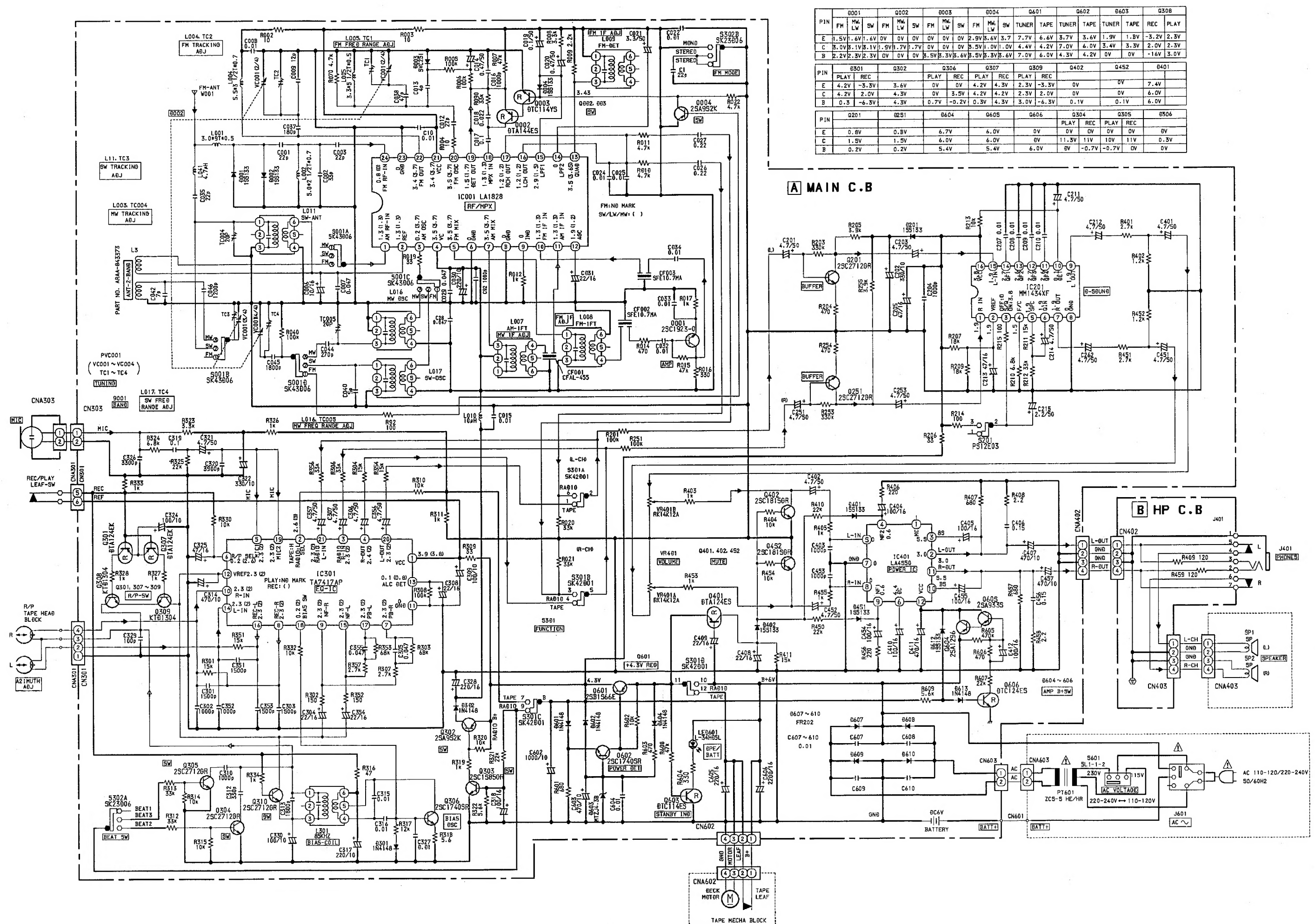
| | |
|-------------------------|----------------|
| Sensitivity (S/N 10dB): | 43dB ± 5dB |
| | [at 5.9MHz] |
| | 47dB ± 5dB |
| | [at 12.0MHz] |
| | 45dB ± 5dB |
| | [at 18.0MHz] |
| S/N Ratio (Input 54dB): | More than 20dB |
| | [at 12.0MHz] |
| Intermediate frequency: | 10.7MHz |

< TAPE RECORDER SECTION >

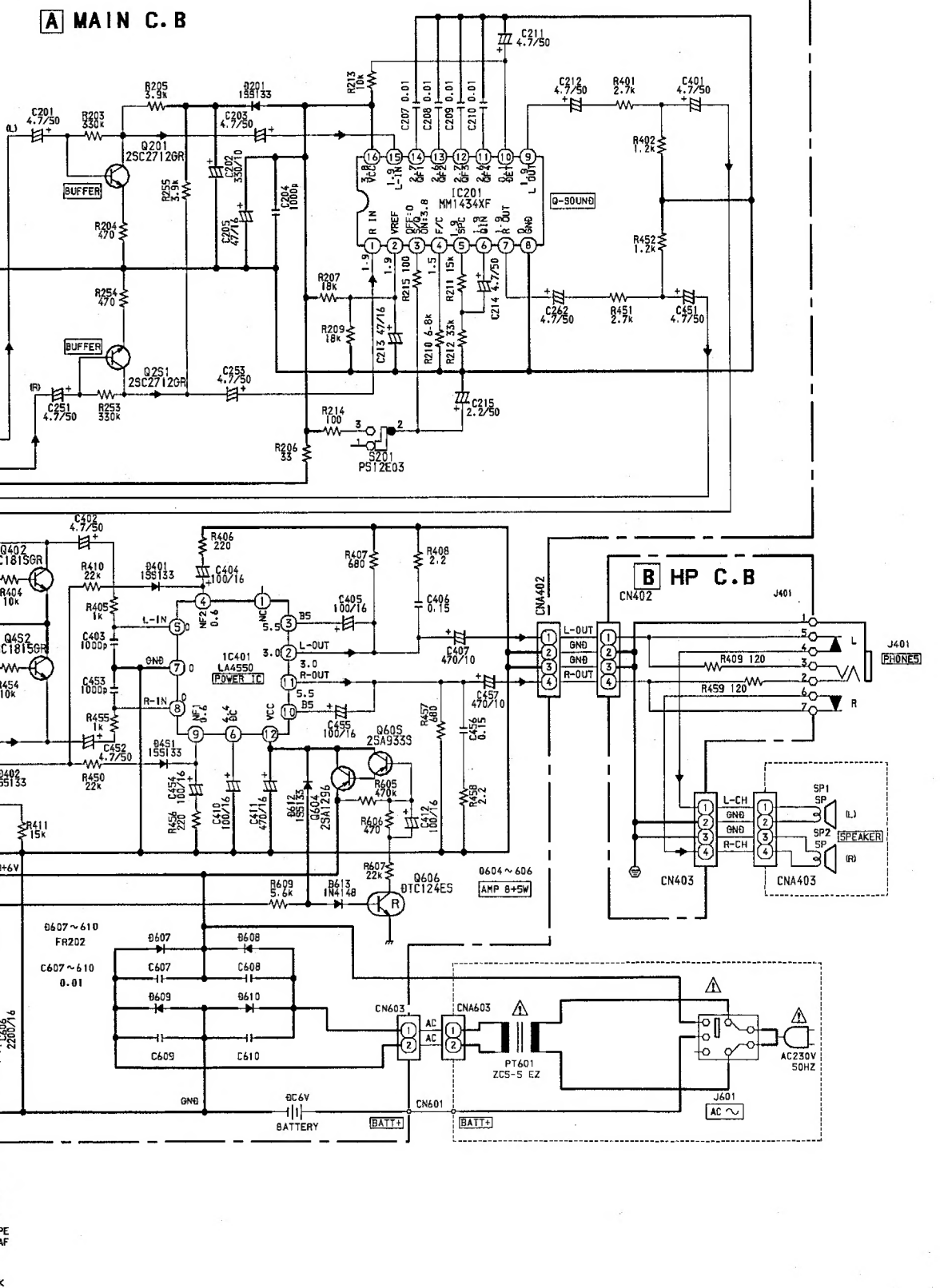
| | |
|------------------|--------------------------|
| PB output level: | More than 0.9W (DC, AC) |
| Distortion: | Less than 3%(PB, DC) |
| | Less than 5%(REC/PB, AC) |
| S/N ratio: | More than 40dB |
| | (PB, DC, AC) |
| | More than 25dB |
| | (REC/PB, AC, DC) |
| Erasing ratio: | More than 50dB |
| Noise level: | Less than 25mV |
| | (DC, AC, PB, VOL MAX) |
| | Less than 1.0mV |
| | (DC, AC, PB, VOL MIN) |
| Test tape: | TTA-100 |
| | NORMAL TTA-601 |
| | TTA-210 |



SCHEMATIC DIAGRAM - 1 (MAIN : HE, HR)

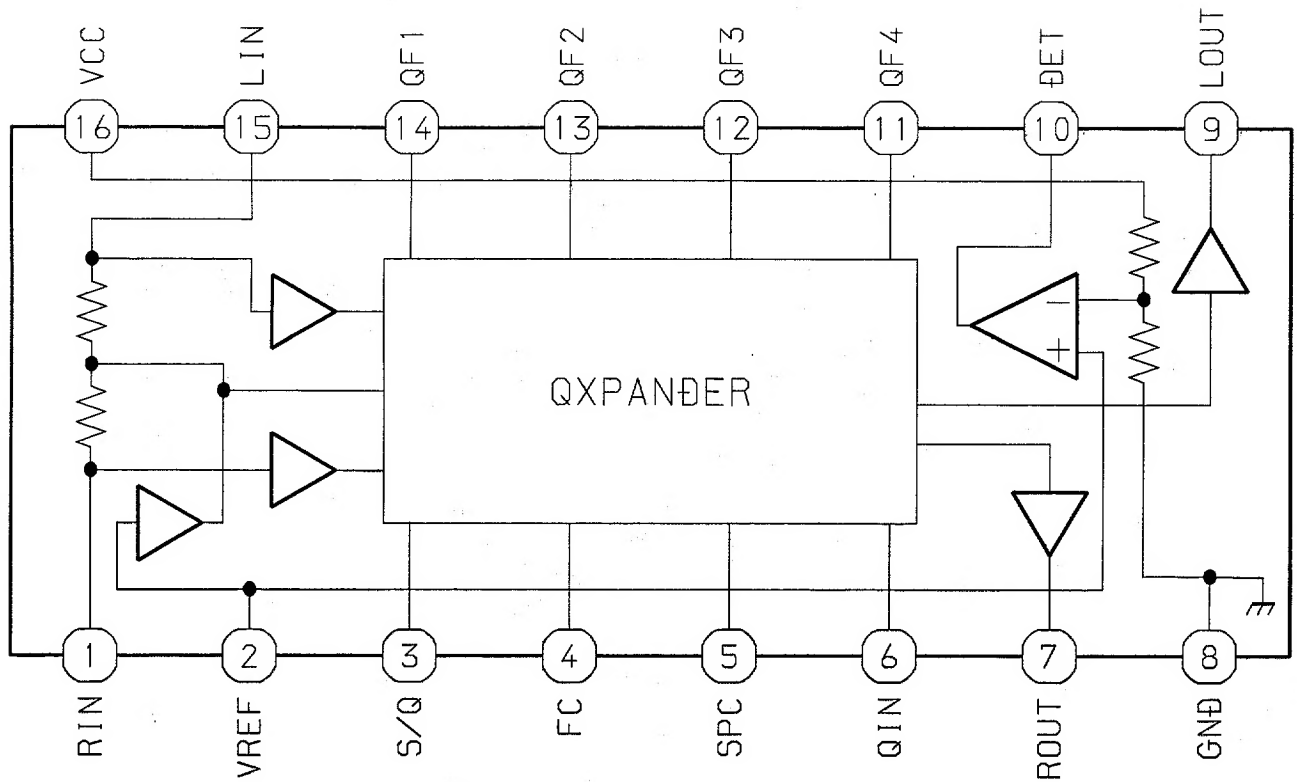


A MAIN C.B

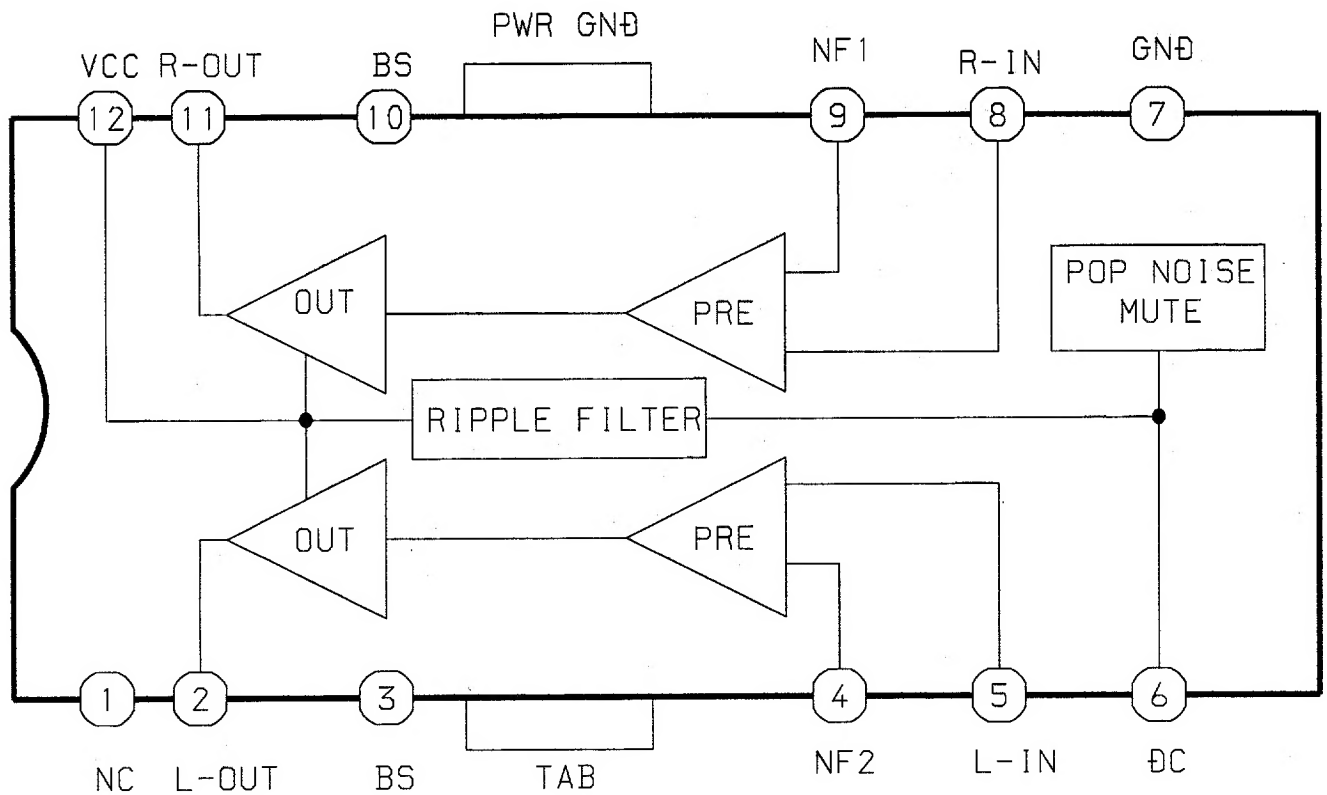


IC BLOCK DIAGRAM

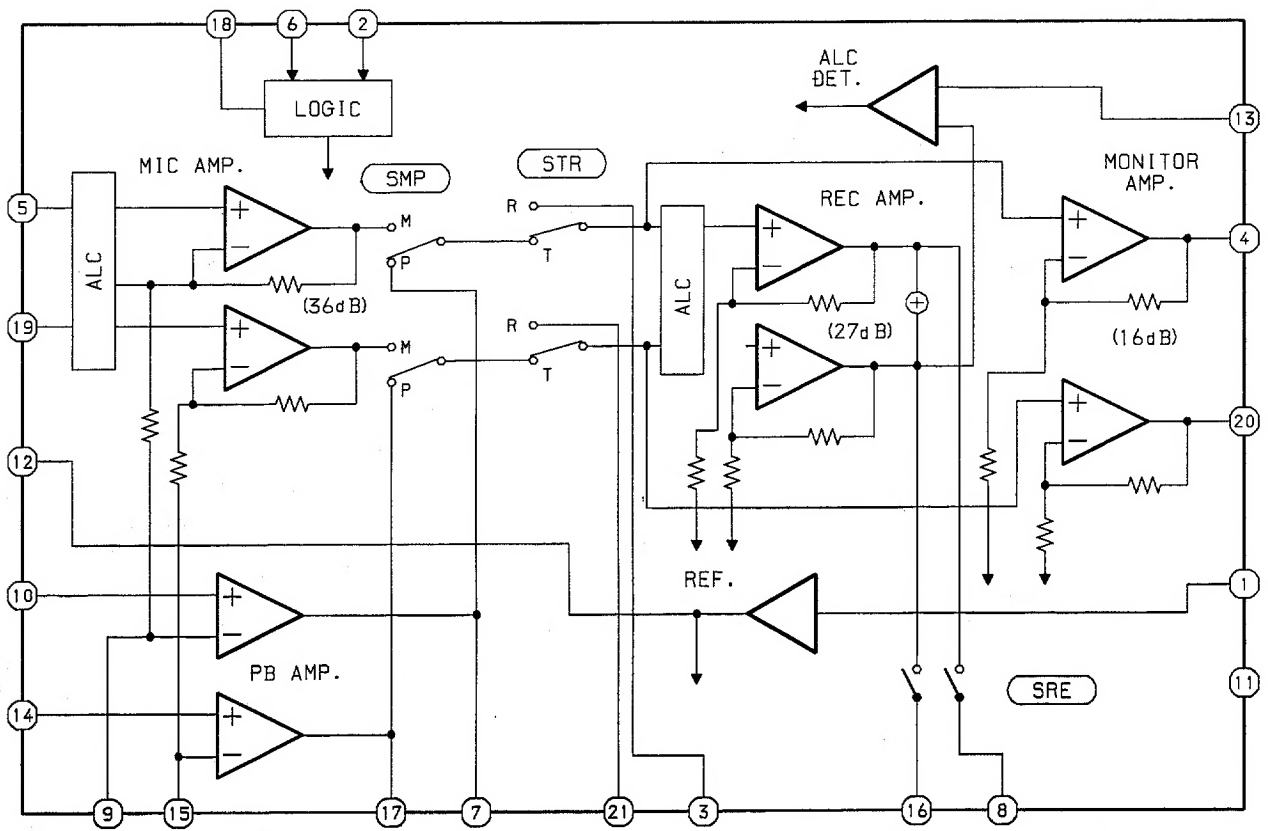
IC, MM1434XF



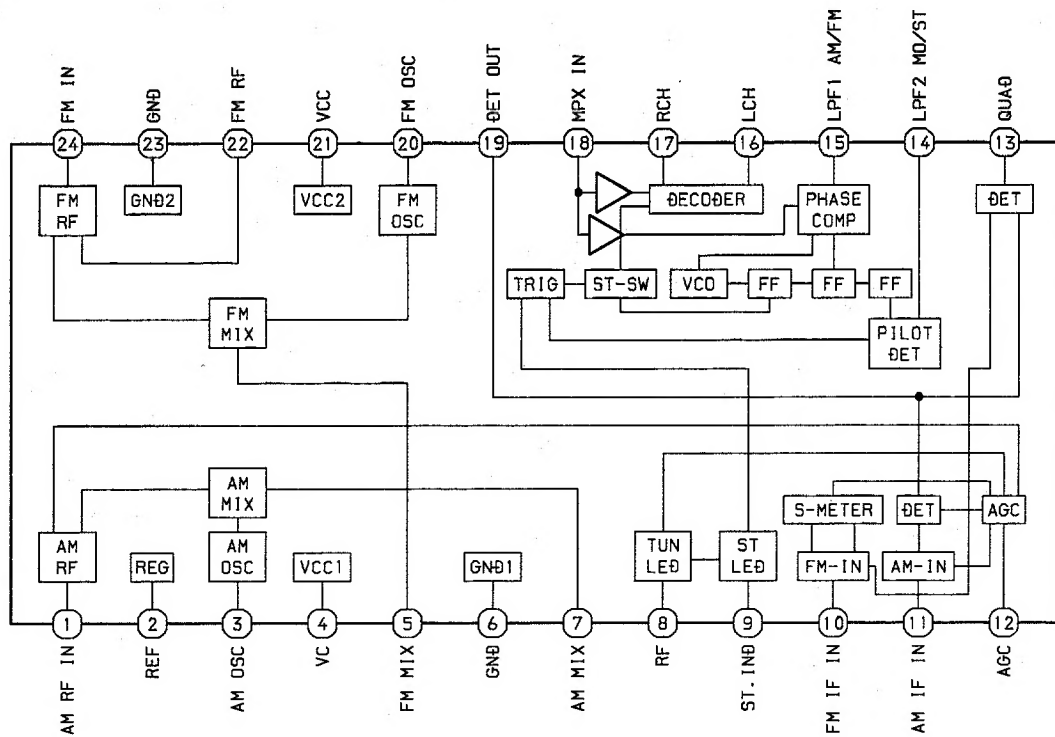
IC, LA4550

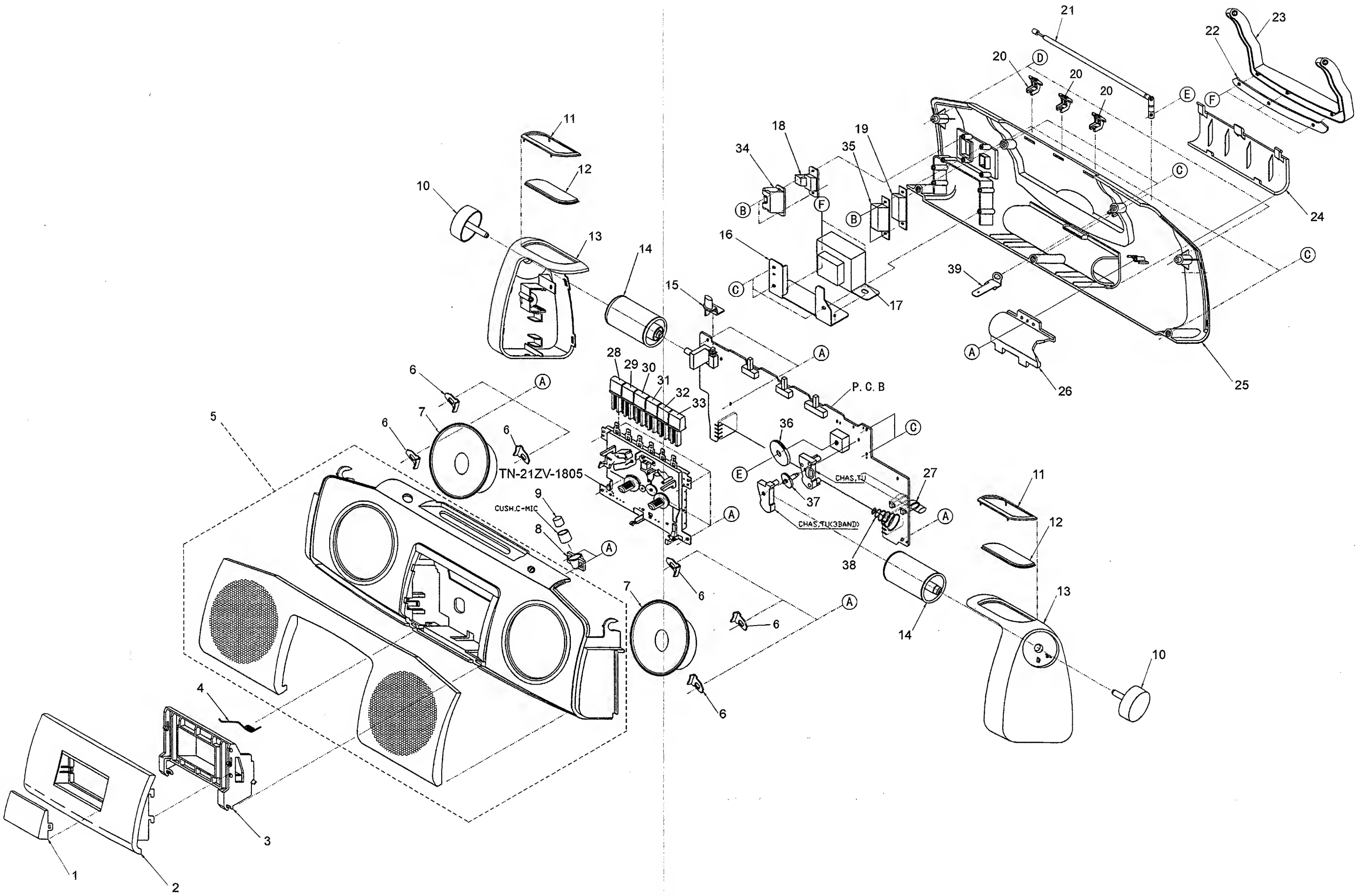


IC, TA7417AP



IC, LA1828





MECHANICAL PARTS LIST 1/1

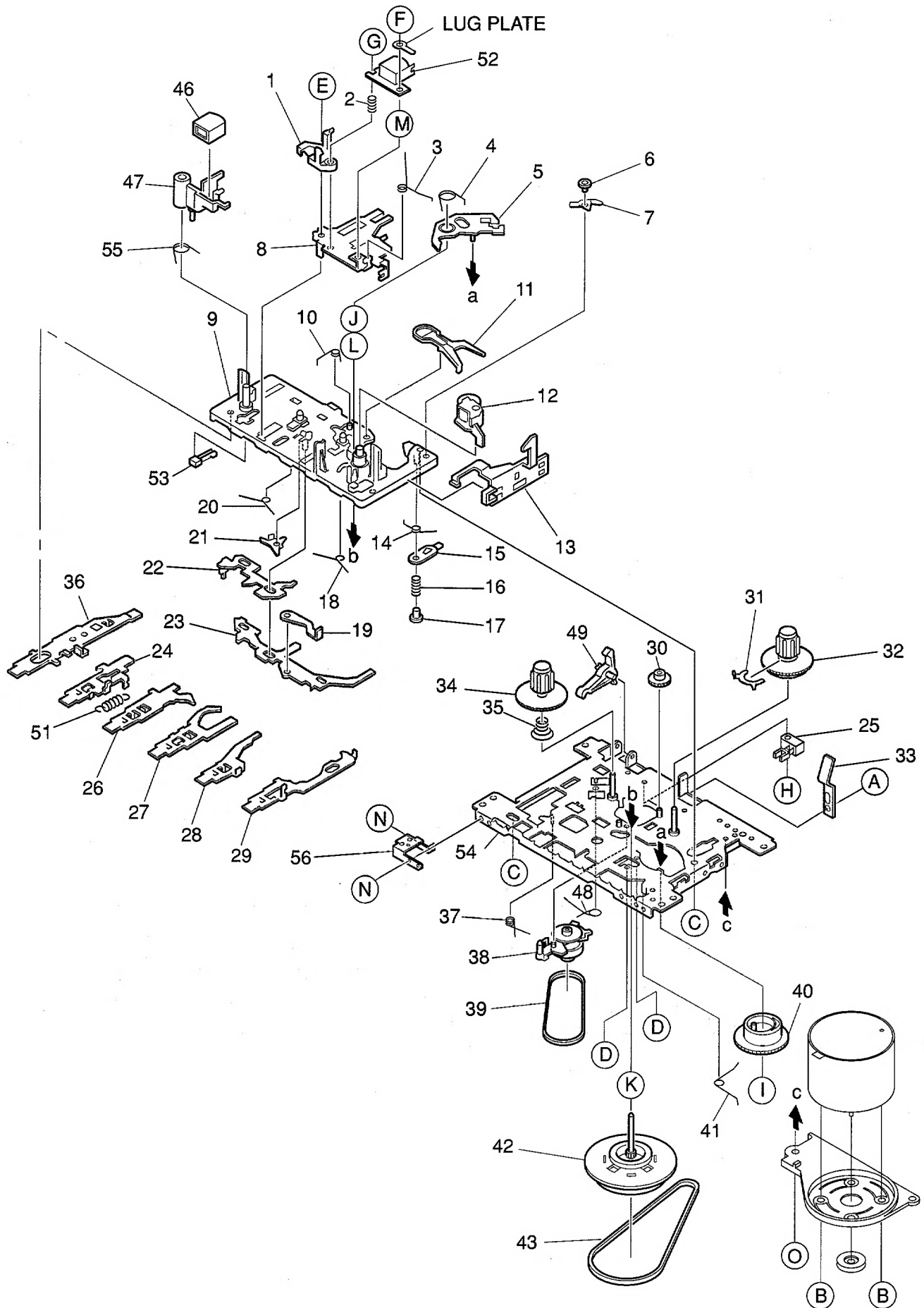
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION | REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|----------|----------------|-----------|-----------------------------------|----------|----------------|-----------|---------------------------------|
| 1 | 8Z-CS5-007-010 | | WINDOW, CASS | 21 | 8Z-CS5-628-010 | | ANT, ROD |
| 2 | 8Z-CS5-045-010 | | LID, CASS EZ<EVS> | 22 | 8Z-CS5-019-010 | | COVER, HANDLE<EVS> |
| 2 | 8Z-CS5-111-010 | | LID, CASS EZ (BLUE)<EVL> | 22 | 8Z-CS5-077-010 | | COVER, HANDLE (BLACK)<HEJB> |
| 2 | 8Z-CS5-065-010 | | LID, CASS HR (BLACK)<HEJB> | 22 | 8Z-CS5-107-010 | | COVER, HANDLE (BLUE)<HRJL, EZL> |
| 2 | 8Z-CS5-095-010 | | LID, CASS HR (BLUE)<HRJL> | 23 | 8Z-CS5-009-010 | | HANDL, <EVS> |
| 3 | 8Z-CS5-020-010 | | HLDR, CASS<EVS> | 23 | 8Z-CS5-067-010 | | HANDL, (BLACK)<HEJB> |
| 3 | 8Z-CS5-078-010 | | HLDR, CASS (BLACK)<HEJB> | 23 | 8Z-CS5-097-010 | | HANDL, (BLUE)<HRJL, EZL> |
| 3 | 8Z-CS5-108-010 | | HLDR, CASS (BLUE)<HRJL, EZL> | 24 | 8Z-CS5-006-010 | | LID, BATT<EVS> |
| 4 | 8Z-CS5-211-010 | | SPR, LID-CASS | 24 | 8Z-CS5-066-010 | | LID, BATT (BLACK)<HEJB> |
| 5 | SZ-CFC-P88-EVS | | CABI, FR EVS (W/GRILLE)<EVS> | 24 | 8Z-CS5-096-010 | | LID, BATT (BLUE)<HRJL, EZL> |
| 5 | SZ-CFC-P88-HEB | | CABI, FR HE (W/GRILLE)<HEJB> | 25 | 8Z-CS5-049-010 | | CABI, REAR EZ<EVS> |
| 5 | SZ-CFC-P88-HRL | | CABI, FR HR (W/GRILLE)<HRJL, EZL> | 25 | 8Z-CS5-110-010 | | CABI, REAR EZ (BLUE)<EVL> |
| 6 | 8Z-CS5-209-010 | | HLDR, SPKR | 25 | 8Z-CS5-062-010 | | CABI, REAR HR (BLACK)<HEJB> |
| 7 | 8Z-CS5-627-010 | | SPKR, 40HM | 25 | 8Z-CS5-092-010 | | CABI, REAR HR (BLUE)<HRJL> |
| 8 | 8Z-CS5-206-010 | | HLDR, C-MIC | 26 | 8Z-CS5-205-010 | | HLDR, BATT |
| 9 | 8Z-CSA-636-010 | | MIC, ECM.CMT-64 | 27 | 8Z-CS5-207-010 | | HLDR, ANT |
| 10 | 8Z-CS5-010-010 | | KNOB, RTRY VOL<EXCEPT HEJB> | 28 | 8Z-CS5-011-010 | | KEY, PAUSE |
| 10 | 8Z-CS5-068-010 | | KNOB, RTRY VOL (BLACK)<HEJB> | 29 | 8Z-CS5-012-010 | | KEY, STOP |
| 11 | 8Z-CS5-021-010 | | RING, TU-WINDOW | 30 | 8Z-CS5-013-010 | | KEY, FF |
| 12 | 8Z-CS5-043-010 | | WINDOW, TUNING EZ<EVS, EZL> | 31 | 8Z-CS5-014-010 | | KEY, REW |
| 12 | 8Z-CS5-029-010 | | WINDOW, TUNING HR<HEJB, HRJL> | 32 | 8Z-CS5-015-010 | | KEY, PLAY |
| 13 | 8Z-CS5-027-010 | | CABI, SIDE (L) EX<EXCEPT HEJB> | 33 | 8Z-CS5-016-010 | | KEY, REC |
| 13 | 8Z-CS5-028-010 | | CABI, SIDE (R) EX<EXCEPT HEJB> | 34 | 88-CD9-207-010 | | COVER, AC SOCKET |
| 13 | 8Z-CS5-063-010 | | CABI, SIDE-L EX (BLACK)<HEJB> | 35 | 88-CD9-209-010 | | COVER, VOLTAGE<HEJB, HRJL> |
| 13 | 8Z-CS5-064-010 | | CABI, SIDE-R EX (BLACK)<HEJB> | 36 | 8Z-CS5-216-010 | | DRUM, PULLEY (3BAND) |
| 14 | 8Z-CS5-202-010 | | DRUM, SCALE | 37 | 8Z-CS5-204-010 | | GEAR, TUNING |
| 15 | 8Z-CS5-017-010 | | KEY, Q-SOUND | 38 | 8Z-CS5-212-010 | | SPR, BATT |
| 16 | 8Z-CS5-208-010 | | HLDR, TRANS | 39 | 8Z-CS5-210-010 | | TERMINAL, ANT |
| 17 | 8Z-CS5-635-010 | | PT, EZ<EVS, EZL> | A | 87-741-095-410 | | UT2+3-8 GLD |
| 17 | 8Z-CS5-636-010 | | PT, HR<HEJB, HRJL> | B | 87-651-075-410 | | VT1 +2.6-10 |
| 18 | 8Z-CD9-635-010 | | JACK, AC E BLK W/SW | C | 87-741-100-410 | | UT2+3-16(W/O) SLOT |
| 19 | 87-A90-146-010 | | SW, SL 1-1-2<HEJB, HRJL> | D | 87-741-103-410 | | UT2+3-25 |
| 20 | 8Z-CS5-018-010 | | KNOB, SL<EVS> | E | 87-251-072-410 | | U+2.6-5 |
| 20 | 8Z-CS5-076-010 | | KNOB, SL (BLACK)<HEJB> | F | 87-721-094-410 | | QT2+3-6 GLD |
| 20 | 8Z-CS5-106-010 | | KNOB, SL (BLUE)<HRJL, EZL> | | | | |

COLOR NAME TABLE

| Basic color symbol | Color | Basic color symbol | Color | Basic color symbol | Color |
|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| B | Black | C | Cream | D | Orange |
| G | Green | H | Gray | L | Blue |
| LT | Transparent Blue | N | Gold | P | Pink |
| R | Red | S | Sliver | ST | Titan Silver |
| T | Brown | V | Violet | W | White |
| WT | Transparent White | Y | Yellow | YT | Transparent Yellow |
| LM | Metallic Blue | LL | Light Blue | GT | Transparent Green |
| LD | Dark Blue | DT | Transparent Orange | | |

TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

| REF. NO. | PART NO. | KANRI NO. | DESCRIPTION | REF. NO. | PART NO. | KANRI NO. | DESCRIPTION |
|----------|----------------|-----------|------------------------|----------|----------------|-----------|-----------------------------|
| 1 | S1-921-030-4A0 | | HEAD BASE | 36 | S1-921-140-030 | | REC BUTTON LEVER |
| 2 | S1-821-030-070 | | AZIMUTH SPRING | 37 | S1-921-140-170 | | P.S.LEVER SPRING |
| 3 | S1-921-030-090 | | PANEL P SPRING | 38 | S1-921-073-040 | | RF CLUTCH ASSY |
| 4 | S1-921-260-050 | | GEAR PLATE SPRING | 39 | S1-921-070-030 | | RF BELT |
| 5 | S1-921-265-020 | | GEAR PLATE ASSY | 40 | S1-921-260-020 | | CAM GEAR |
| 6 | S1-921-140-370 | | P ARM COLLER | 41 | S1-921-140-160 | | E ACTUATOR SPRING |
| 7 | S1-921-020-010 | | REC ARM | 42 | S1-921-093-030 | | FLYWHEEL ASSY |
| 8 | S1-921-030-110 | | HEAD PANEL | 43 | S1-921-090-240 | | MAIN BELT |
| 9 | S1-921-143-160 | | BASE ASSY | 44 | S1-921-120-010 | | MOTOR PULLEY |
| 10 | S1-921-141-8A0 | | M CONTROL SPRING | 45 | S6-002-010-120 | | MOTOR EG530AD-6F |
| 11 | S1-921-260-4A0 | | SENSING LEVER | 46 | S6-209-100-100 | | E HEAD PH-K380-MS1 |
| 12 | S1-921-043-090 | | PINCH ROLLER ARM ASY | 47 | S1-921-030-050 | | MG ARM |
| 13 | S1-921-130-010 | | EJECT SLIDE LEVER | 48 | S1-921-140-210 | | REC BUTTON LEVER SPRING |
| 14 | S1-921-141-3A0 | | P CONTROL SPRING | 49 | S1-821-100-690 | | RECORD SAFETY LEVER |
| 15 | S1-921-140-550 | | PAUSE LEVER(E) | 50 | S1-921-120-080 | | MOTOR BRACKET |
| 16 | S1-921-140-120 | | PAUSE LEVER SPRING | 51 | S1-821-010-500 | | PLAY BUTTON LEVER SPRING |
| 17 | S1-921-140-110 | | PAUSE STOPPER | 52 | S6-201-011-110 | | HEAD,RP7442ES-0951 |
| 18 | S1-921-140-150 | | BUTTON LEVER SPRING(B) | 53 | S6-401-011-490 | | LEAF SW MSW-1541T |
| 19 | S1-821-011-590 | | E KICK LEVER | 54 | S1-921-015-010 | | CHASSIS ASSY |
| 20 | S1-921-140-140 | | BUTTON LEVER SPRING(A) | 55 | S1-921-030-100 | | MG ARM SPRING |
| 21 | S1-921-140-200 | | PR STOPPER | A | S9-P33-200-320 | | DEL TITE SCREWM2-3 |
| 22 | S1-921-140-090 | | SWITCH ACTUATOR | B | S1-921-120-020 | | MOTOR COLLER SCREW |
| 23 | S1-921-140-080 | | PUSH BUTTON ACTUATOR | C | S9-B10-200-510 | | P TAPPING BIND SCREW M2-5 |
| 24 | S1-921-140-190 | | PLAY BUTTON LEVER | D | S9-C07-204-510 | | SCREW,TAPPING(CAMERA)M2-4.5 |
| 25 | S6-401-010-380 | | LEAF SWITCH MSW-1275 | E | S9-P01-200-610 | | SCREW,M2-6 |
| 26 | S1-921-140-040 | | REW BUTTON LEVER | F | S9-B01-200-310 | | (+)BIND SCREW M2-3 |
| 27 | S1-921-140-050 | | FF,BUTTON REVER | G | S9-F08-200-710 | | AZIMUTH SCREW M2-7 |
| 28 | S1-921-140-060 | | STOP BUTTON LEVER | H | S9-P04-200-510 | | C TAPPING SCREW M2-5 |
| 29 | S1-921-140-600 | | PAUSE BUTTON LEVER | I | S9-W02-300-100 | | P WASHER CUT 1.2-3.8-0.3 |
| 30 | S1-821-100-700 | | FF GEAR | J | S9-W02-500-100 | | P WASHER CUT 1.45-3.8-0.5 |
| 31 | S1-921-050-060 | | SENSOR | K | S9-W01-400-100 | | P WASHER 2-3.5-0.4 |
| 32 | S1-921-053-100 | | TAKE UP REEL ASSY | L | S9-W01-130-200 | | P WASHER 2.1-4-0.13 |
| 33 | S1-829-100-010 | | PACK SPRING | M | S9-W13-000-100 | | Y WASHER PB 0.1T |
| 34 | S1-921-050-150 | | S REEL HUB | N | S9-P04-200-410 | | C TAPPING SCREW M2-4 |
| 35 | S1-921-050-220 | | BACK TENSION SPRING | O | S1-921-120-030 | | MB SCREW |

REFERENCE NAME LIST

ELECTRICAL SECTION

| DESCRIPTION | REFERENCE NAME |
|-------------|--------------------|
| ANT | ANTENNAS |
| C- | CHIP |
| C-CAP | CAP, CHIP |
| C-CAP TN | CAP, CHIP TANTALUM |
| C-COIL | COIL, CHIP |
| C-DI | DIODE, CHIP |
| C-DIODE | DIODE, CHIP |
| C-FET | FET, CHIP |
| C-FOTR | FILTER, CHIP |
| C-JACK | JACK, CHIP |
| C-LED | LED, CHIP |
| C-RES | RES, CHIP |
| C-SFR | SFR, CHIP |
| C-SLIDE SW | SLIDE SWITCH, CHIP |
| C-SW | SWITCH, CHIP |
| C-TR | TRANSISTOR, CHIP |
| C-VR | VOLUME, CHIP |
| C-ZENER | ZENER, CHIP |
| CAP, CER | CAP, CERA-SOL |
| CAP, E | CAP, ELECT |
| CAP, M/F | CAP, FILM |
| CAP, TC | CAP, CERA-SOL |
| CAP, TC-U | CAP, CERA-SOL SS |
| CAP, TN | CAP, TANTALUM |
| CERA FIL | FILTER, CERAMIC |
| CF | FILTER, CERAMIC |
| DL | DELAY LINE |
| E/CAP | CAP, ELECT |
| FILT | FILTER |
| FLTR | FILTER |
| FUSE RES | RES, FUSE |
| MOT | MOTOR |
| P-DIODE | PHOTO DIODE |
| P-SNSR | PHOTO SENSER |
| P-TR | PHOTO TRANSISTOR |
| POLY VARI | VARIABLE CAPACITOR |
| PPCAP | CAP, PP |
| PT | POWER TRANSFORMER |
| PTR, RES | PTR, MELF |
| RC | REMOTE CONTROLLER |
| RES NF | RES, NON-FLAMMABLE |
| RESO | RESONATOR |
| SHLD | SHIELD |
| SOL | SOLENOID |
| SPKR | SPEAKER |
| SW, LVR | SWITCH, LEVER |
| SW, RTRY | SWITCH, ROTARY |
| SW, SL | SWITCH, SLIDE |
| TC CAP | CAP, CERA-SOL |
| THMS | THERMISTOR |
| TR | TRANSISTOR |
| TRIMER | CAP, TRIMMER |
| TUN-CAP | VARIABLE CAPACITOR |
| VIB, CER | RESONATOR, CERAMIC |
| VIB, XTAL | RESONATOR, CRYSTAL |
| VR | VOLUME |
| ZENER | DIODE, ZENER |

MECHANICAL SECTION

| DESCRIPTION | REFERENCE NAME |
|----------------|---------------------|
| ADHESHIVE | SHEET ADHESHIVE |
| AZ | AZIMUTH |
| BAR-ANT | BAR-ANTENNA |
| BAT | BATTERY |
| BATT | BATTERY |
| BRG | BEARING |
| BTN | BUTTON |
| CAB | CABINET |
| CASS | CASSETTE |
| CHAS | CHASSIS |
| CLR | COLLAR |
| CONT | CONTROL |
| CRSR | CURSOR |
| CU | CUSHION |
| CUSH | CUSHION |
| DIR | DIRECTION |
| DUBB | DUBBING |
| FL | FRONT LOADING |
| FLY-WHL | FLYWHEEL |
| FR | FRONT |
| FUN | FUNCTION |
| G-CU | G-CUSHION |
| HDL | HANDOL |
| HIMERON | CLOTH |
| HINGE, BAT | HINGE, BATTERY |
| HLDR | HOLDER |
| HT-SINK | HEAT SINK |
| IB | INSTRUCTION BOOKLET |
| IDLE | IDLER |
| IND, L-R | INDICATOR, L-R |
| KEY, CONT | KEY, CONTROL |
| KEY, PRGM | KEY, PROGRAM |
| KNOB, SL | KNOB, SLIDE |
| LBL | LABEL |
| LID, BATT | LID, BATTERY |
| LID, CASS | LID, CASSETTE |
| LVR | LEVER |
| P-SP | P-SPRING |
| PANEL, CONT | PANEL, CONTROL |
| PANEL, FR | PANEL, FRONT |
| PRGM | PROGRAM |
| PULLY, LOAD MO | PULLY, LOAD MOTOR |
| RBN | RIBBON |
| S- | SPECIAL |
| SEG | SEGMENT |
| SH | SHEET |
| SHLD-SH | SHIELD-SHEET |
| SL | SLIDE |
| SP | SPRING |
| SP-SCREW | SPECIAL-SCREW |
| SPACER, BAT | SPACER, BATTERY |
| SPR | SPRING |
| SPR-P | P-SPRING |
| SPR-PC-PUSH | P-SPRING, C-PUSH |
| T-SP | T-SPRING |
| TERM | TERMINAL |
| TRIG | TRIGGER |
| TUN | TUNING |
| VOL | VOLUME |
| W | WASHER |
| WHL | WHEEL |
| WORM-WHL | WORM-WHEEL |

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